



SEQUENCE LISTING

<110> KISHIMOTO, TADAMITSU
MIHARA, MASAHIKO
MORIYA, YOICHIRO
OSHUGI, YOSIYUKI

<120> CHRONIC RHEUMATOID ARTHRITIS THERAPY CONTAINING IL-6
ANTAGONIST AS EFFECTIVE COMPONENT

<130> 053466/0296

<140> 09/756,125

<141> 2001-01-09

<150> 09/233,474

<151> 1999-01-20

<150> 08/817,084

<151> 1997-04-07

<150> PCT/JP95/01144

<151> 1995-06-07

<150> 08/971,997

<151> 1997-02-21

<150> 08/268,520

<151> 1994-06-30

<150> JP 6-244035

<151> 1994-10-07

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<170> PatentIn Ver. 2.1

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<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
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atattctcta gagagattct

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<210> 2

<211> 11

<212> PRT

<213> Homo sapiens

<400> 2

Arg Ala Ser Gln Asp Ile Ser Ser Tyr Leu Asn

1

5

10

<210> 3
<211> 7
<212> PRT
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Tyr Thr Ser Arg Leu His Ser
1 5

<210> 4
<211> 9
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<400> 4
Gln Gln Gly Asn Thr Leu Pro Tyr Thr
1 5

<210> 5
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<212> PRT
<213> Homo sapiens

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Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala Ser Val Gly
1 5 10 15

Asp Arg Val Thr Ile Thr Cys
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<210> 6
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Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 7
<211> 32
<212> PRT
<213> Homo sapiens

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Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr
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Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys
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Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
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<210> 9

<211> 32

<212> PRT

<213> Homo sapiens

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Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Tyr Thr
1 5 10 15

Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys
20 25 30

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<212> PRT

<213> Homo sapiens

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Ser Asp His Ala Trp Ser
1 5

<210> 11

<211> 16

<212> PRT

<213> Homo sapiens

<400> 11

Tyr Ile Ser Tyr Ser Gly Ile Thr Thr Tyr Asn Pro Ser Leu Lys Ser
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<213> Homo sapiens

<400> 12

Ser Leu Ala Arg Thr Thr Ala Met Asp Tyr
1 5 10

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<211> 30

<212> PRT

<213> Homo sapiens

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Gln Val Gln Leu Gln Glu Ser Gly Pro Gly Leu Val Arg Pro Ser Gln
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Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Ile Thr
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<210> 14
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<210> 15
<211> 32
<212> PRT
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Arg Val Thr Met Leu Arg Asp Thr Ser Lys Asn Gln Phe Ser Leu Arg
1 5 10 15

Leu Ser Ser Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
20 25 30

<210> 16
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<213> Homo sapiens

<400> 16
Trp Gly Gln Gly Ser Leu Val Thr Val Ser Ser
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<210> 17
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic construct

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<222> (12)..(425)

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<220>
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<222> (69)..(425)

<400> 17

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	Met	Gly	Trp	Ser	Cys	Ile	Ile	Leu	Phe	Leu	Val	Ala	Thr			
	1				5					10						

gct	aca	ggt	gtc	cac	tcc	cag	gtc	caa	ctg	cag	gag	agc	ggt	cca	ggt	98
Ala	Thr	Gly	Val	His	Ser	Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	
	15					20					25					

ctt	gtg	aga	cct	agc	cag	acc	ctg	agc	ctg	acc	tgc	acc	gtg	tct	ggc	146
Leu	Val	Arg	Pro	Ser	Gln	Thr	Leu	Ser	Leu	Thr	Cys	Thr	Val	Ser	Gly	
	30				35					40					45	

tac	tca	att	acc	agc	gat	cat	gcc	tgg	agc	tgg	gtt	cgc	cag	cca	cct	194
Tyr	Ser	Ile	Thr	Ser	Asp	His	Ala	Trp	Ser	Trp	Val	Arg	Gln	Pro	Pro	
				50					55					60		

gga	cga	ggt	ctt	gag	tgg	att	gga	tac	att	agt	tat	agt	gga	atc	aca	242
Gly	Arg	Gly	Leu	Glu	Trp	Ile	Gly	Tyr	Ile	Ser	Tyr	Ser	Gly	Ile	Thr	
			65					70					75			

acc	tat	aat	cca	tct	ctc	aaa	tcc	aga	gtg	aca	atg	ctg	aga	gac	acc	290
Thr	Tyr	Asn	Pro	Ser	Leu	Lys	Ser	Arg	Val	Thr	Met	Leu	Arg	Asp	Thr	
		80					85					90				

agc	aag	aac	cag	ttc	agc	ctg	aga	ctc	agc	agc	gtg	aca	gcc	gcc	gac	338
Ser	Lys	Asn	Gln	Phe	Ser	Leu	Arg	Leu	Ser	Ser	Val	Thr	Ala	Ala	Asp	
	95					100					105					

acc	gcg	gtt	tat	tat	tgt	gca	aga	tcc	cta	gct	cgg	act	acg	gct	atg	386
Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Ser	Leu	Ala	Arg	Thr	Thr	Ala	Met	
	110				115					120					125	

gac	tac	tgg	ggt	caa	ggc	agc	ctc	gtc	aca	gtc	tcc	tca	ggtgagtgga			435
Asp	Tyr	Trp	Gly	Gln	Gly	Ser	Leu	Val	Thr	Val	Ser	Ser				
				130					135							

tcc																438
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<210> 18

<211> 138

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic construct

<400> 18

Met	Gly	Trp	Ser	Cys	Ile	Ile	Leu	Phe	Leu	Val	Ala	Thr	Ala	Thr	Gly	
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Val	His	Ser	Gln	Val	Gln	Leu	Gln	Glu	Ser	Gly	Pro	Gly	Leu	Val	Arg	
			20					25					30			

Pro Ser Gln Thr Leu Ser Leu Thr Cys Thr Val Ser Gly Tyr Ser Ile

35	40	45
Thr Ser Asp His Ala Trp	Ser Trp Val Arg Gln	Pro Pro Gly Arg Gly
50	55	60
Leu Glu Trp Ile Gly Tyr	Ile Ser Tyr Ser Gly	Ile Thr Thr Tyr Asn
65	70	75
Pro Ser Leu Lys Ser Arg	Val Thr Met Leu Arg	Asp Thr Ser Lys Asn
85	90	95
Gln Phe Ser Leu Arg Leu	Ser Ser Val Thr Ala	Ala Asp Thr Ala Val
100	105	110
Tyr Tyr Cys Ala Arg Ser	Leu Ala Arg Thr Thr	Ala Met Asp Tyr Trp
115	120	125
Gly Gln Gly Ser Leu Val	Thr Val Ser Ser	
130	135	

<210> 19
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic construct

<220>
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 <222> (12)..(389)

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 <221> mat_peptide
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<400> 19	
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Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr	
-15 -10	
gct aca ggt gtc cac tcc gac atc cag atg acc cag agc cca agc agc	98
Ala Thr Gly Val His Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser	
-5 -1 1 5 10	
ctg agc gcc agc gtg ggt gac aga gtg acc atc acc tgt aga gcc agc	146
Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser	
15 20 25	

cag gac atc agc agt tac ctg aat tgg tac cag cag aag cca gga aag	194
Gln Asp Ile Ser Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys	
30 35 40	
gct cca aag ctg ctg atc tac tac acc tcc aga ctg cac tct ggt gtg	242
Ala Pro Lys Leu Leu Ile Tyr Tyr Thr Ser Arg Leu His Ser Gly Val	
45 50 55	
cca agc aga ttc agc ggt agc ggt agc ggt acc gac ttc acc ttc acc	290
Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr	
60 65 70	
atc agc agc ctc cag cca gag gac atc gct acc tac tac tgc caa cag	338
Ile Ser Ser Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln	
75 80 85 90	
ggt aac acg ctt cca tac acg ttc ggc caa ggg acc aag gtg gaa atc	386
Gly Asn Thr Leu Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile	
95 100 105	
aaa cgtgagtgga tcc	402
Lys	

<210> 20
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 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic construct

<400> 20
 Met Gly Trp Ser Cys Ile Ile Leu Phe Leu Val Ala Thr Ala Thr Gly
 -15 -10 -5

Val His Ser Asp Ile Gln Met Thr Gln Ser Pro Ser Ser Leu Ser Ala
 -1 1 5 10

Ser Val Gly Asp Arg Val Thr Ile Thr Cys Arg Ala Ser Gln Asp Ile
 15 20 25

Ser Ser Tyr Leu Asn Trp Tyr Gln Gln Lys Pro Gly Lys Ala Pro Lys
 30 35 40 45

Leu Leu Ile Tyr Tyr Thr Ser Arg Leu His Ser Gly Val Pro Ser Arg
 50 55 60

Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Phe Thr Ile Ser Ser
 65 70 75

Leu Gln Pro Glu Asp Ile Ala Thr Tyr Tyr Cys Gln Gln Gly Asn Thr
 80 85 90

Leu Pro Tyr Thr Phe Gly Gln Gly Thr Lys Val Glu Ile Lys
95 100 105